**GE2025 - Batch 3 & 4**

**Node.js training Concepts:**

**Day 1:**

1. An overview on Node.js

2. Client server architecture

3. Multi-threaded and single threaded processing concepts

4. Node.js following an event driven process

5. Case studies

6. What is Node.js and its features

7. Blocking and non-blocking concepts

8. NPM and its modules

9. Installing node

10. Introduced to different npm packages

11. Introduced to express framework and its features

12. Demo - To start with a simple application

13. Introduction to postman

**Day 2:**

1. Introduction to Mongo DB, creating a sample project and clusters

2. Connecting Mongo DB to our application

3. How to define a schema for an entity

4. Overview on the CRUD operations

5. Demo on CRUD Operations

6. Introduction to HTTP status codes

7. Introduction to controllers and routes

8. Introduction to .env file and its configuration

9. Introduction to GitHub and create a new repository.

**Sample CRUD API**

<https://github.com/Supriya-GJ/sample-crud-apis>

**Task:**

**1. Build a Node.js CRUD Application:**

- Set up a Node.js project using Express.js and a database (use MongoDB).

- Define a schema for an entity (e.g., User, Product, or Task).

- Implement Create, Read, Update, and Delete (CRUD) operations using Express routes and database integration.

**2. Testing:**

- Use Postman to test each API endpoint.

- Capture and attach screenshots of Postman responses for all CRUD operations.

**3. Version Control:**

- Initialize a Git repository for the project.

- Push the project to a new GitHub repository.

- Share the repository link for review.